



## ABSTRACT

This invention relates to a new use of marine ~~cyano-bacterium~~ cyanobacteria *Lyngbya*, *Oscillatoria*, *Spirulina*, *Anabaena* and *Synechocystis* being deposited with ATCC having accession numbers ATCC PTA-4602 and 4603 for the removal of calcium ions from sea-brine and sub-soil brine having a density range 10 to 25.5 °Be', by culturing the cyanobacteria, inoculating the cyanobacteria culture to raw brine of 10 to 25.5 °Be', filtering the resultant mixture to obtain a brine having less calcium, and separating the cyanobacteria which can be reused if desired.